

CLAIMS

1.- A detection and storage system of mobile terminals accessing a foreign telephone network, wherein the foreign mobile telephone networks (3) are connected to a network (1) to which the mobile terminal belongs through a gateway (2) by means of which communication is permitted with the mobile terminal accessing a foreign network (3), therefore the gateway (2) indicates, among other signalings, when a subscriber enters/exits a foreign network (3), the foreign network (3) data and the data regarding the mobile terminal, all this to activate an indication in the mobile terminal's network that said mobile terminal is in a foreign network; characterized in that between the gateway (2) and the mobile terminal network (1), it comprises processing means (4) which detect, out of all the information circulating through the gateway (2), the signaling parameters of the entrance/exit of a terminal in a foreign network, the foreign network data and the data regarding the terminal, to separate and send these data to analysis means (6) which, after analyzing the information, access storage means (7) which store the terminals entering/exiting a foreign network, the foreign network data and the data of the terminals in a foreign network, to know which terminals and which foreign network each terminal is in, and to thus be able to provide the contracted services in the foreign network.

2.- A detection and storage system of mobile terminals accessing a foreign telephone network according to claim 1, characterized in that the analysis means (6) are connected to a real time service module (8) which is informed every time they detect an entrance/exit of a terminal in a foreign network in order to immediately provide real time services to the terminals in a foreign network, without having to make prior consultations.

3.- A detection and storage system of mobile terminals accessing a foreign telephone network according to claim 1, characterized in that it comprises an event-based service module (9) connected to an event generator (11), so that when the latter generates a service for subscribers, the event-based service module (9) accesses the data base (7) to know which subscribers are located in foreign networks (3), and to thus be able to provide the service.

4.- A detection and storage system of mobile terminals accessing a foreign telephone network according to claim 1, characterized in that the data base (7) contains the data regarding the features of each foreign network (3) to be able to determine which network the different received data belong to, and to adapt the subscriber contracted services to the features of the foreign network.

5.- A detection and storage system of mobile terminals accessing a foreign telephone network according to claim 2, characterized in that when the analysis means (6) detect an entrance of a terminal into a foreign network, they consider that the subscriber has entered into a foreign network, storing this information in the data base, updating the current subscriber location and communicating this to the real time service module (8).

6.- A detection and storage system of mobile terminals accessing a foreign telephone network according to claim 2, characterized in that when the analysis means (6) detect an exit of a terminal from a foreign network (3), they verify whether notification has been received that the terminal has entered into another foreign network (3), and in the affirmative case they consider that the subscriber has entered into another foreign network, storing this information and updating the current subscriber location in the data base, and they also communicate this to the real time service module (8); whereas if the verification is negative, then they consult their own network to verify whether the terminal has again entered its network, and if an affirmative response is obtained, they eliminate the entry corresponding to the data base and report this to the real time service module.

7.- A detection and storage system of mobile terminals accessing a foreign telephone network according to any one of the previous claims, characterized in that the data base stores the log of all the visits made by each terminal to the foreign networks so as to permit consultation thereof by other systems.